

FIGURE 1A

RAT CEREBRAL CORTICAL CULTURES EXPRESS EPO RECEPTOR

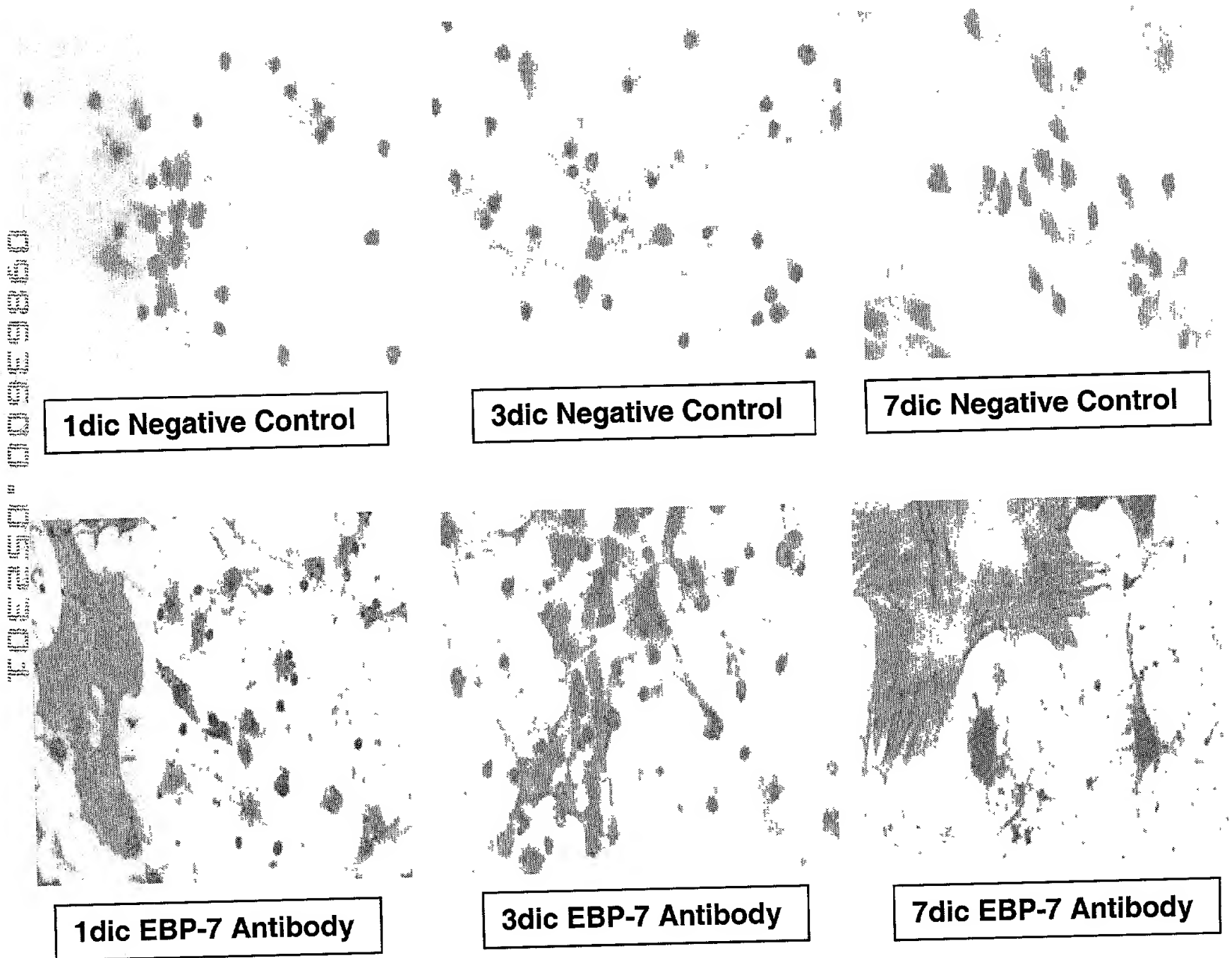
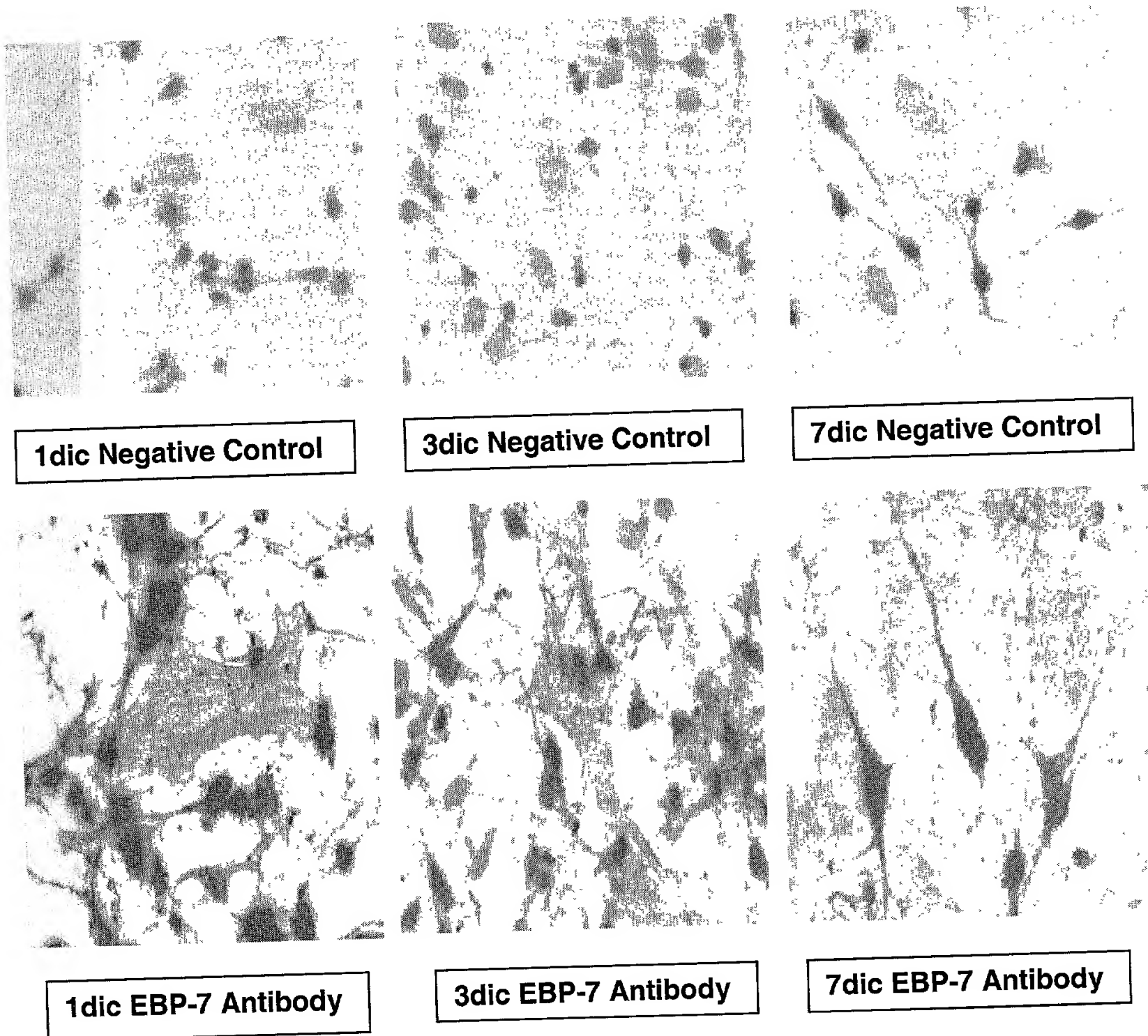


FIGURE 1B

RAT HIPPOCAMPAL CULTURES EXPRESS EPO RECEPTOR



100

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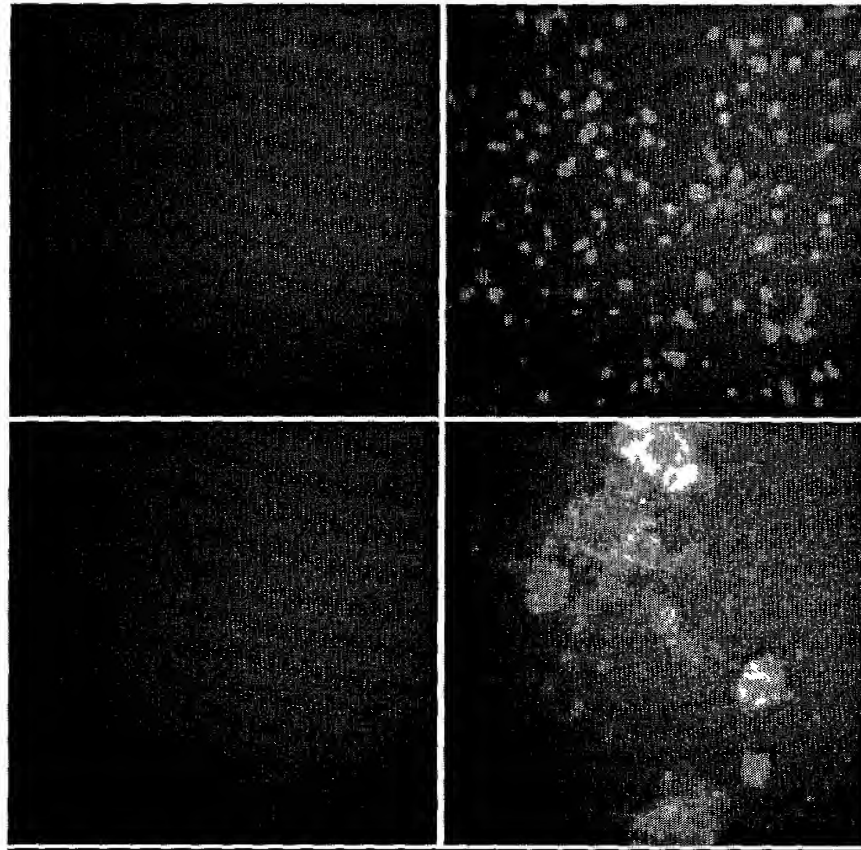
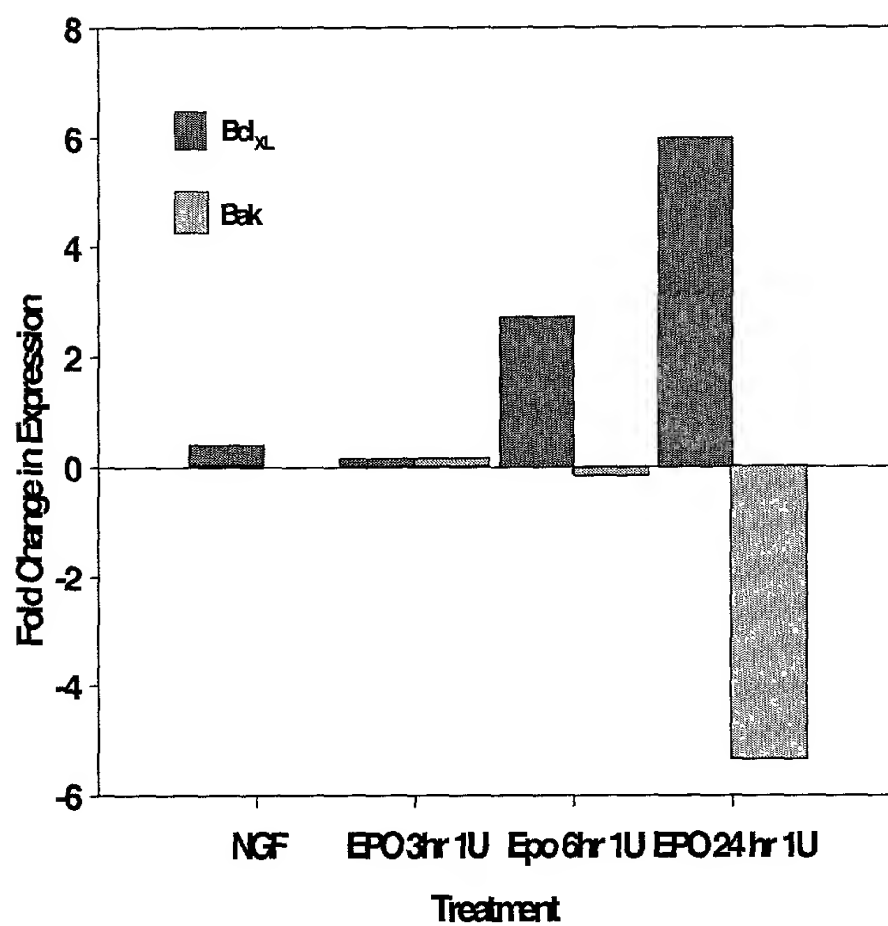


FIGURE 3

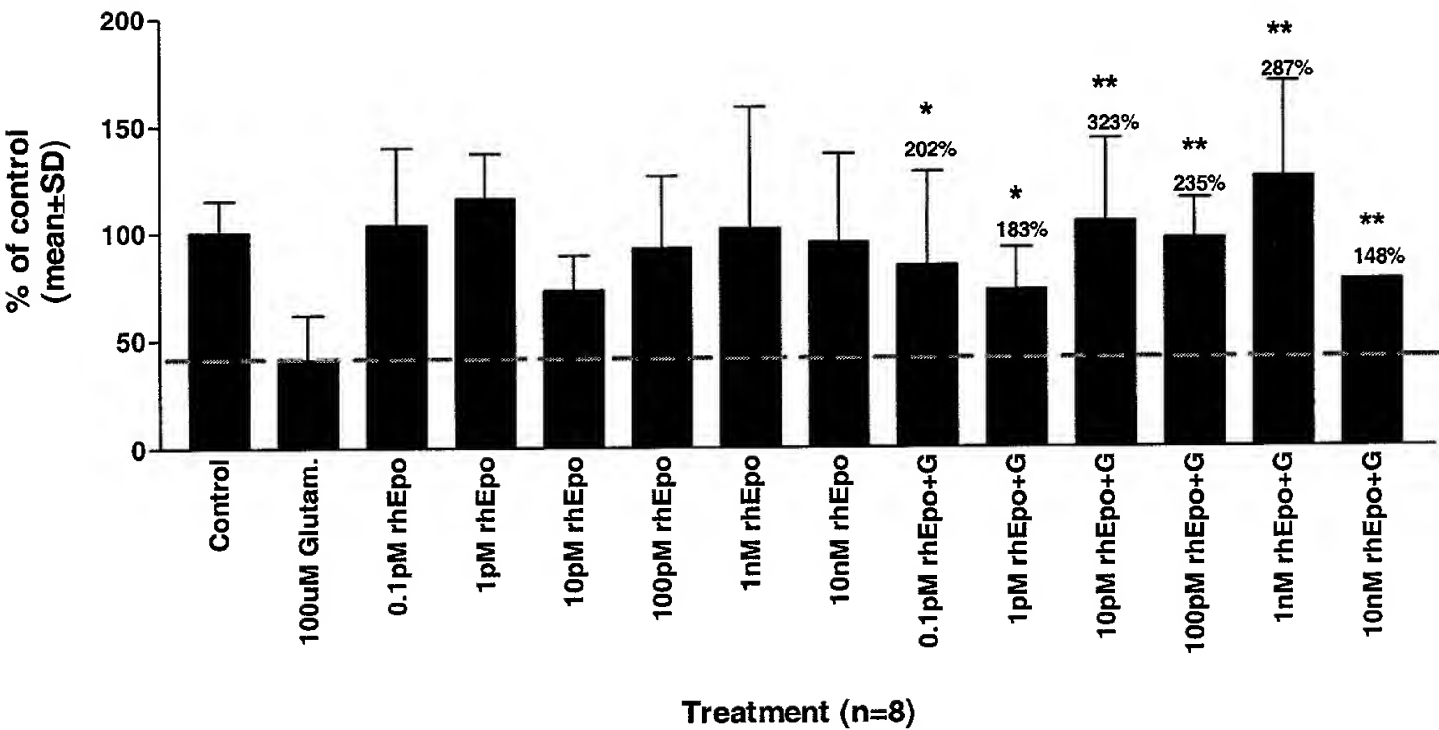
EPO INDUCED GENE EXPRESSION IN PC12 CELLS



Erythropoietin regulates the expression of the BCL family members Bcl_{XL} and Bak.

FIGURE 4

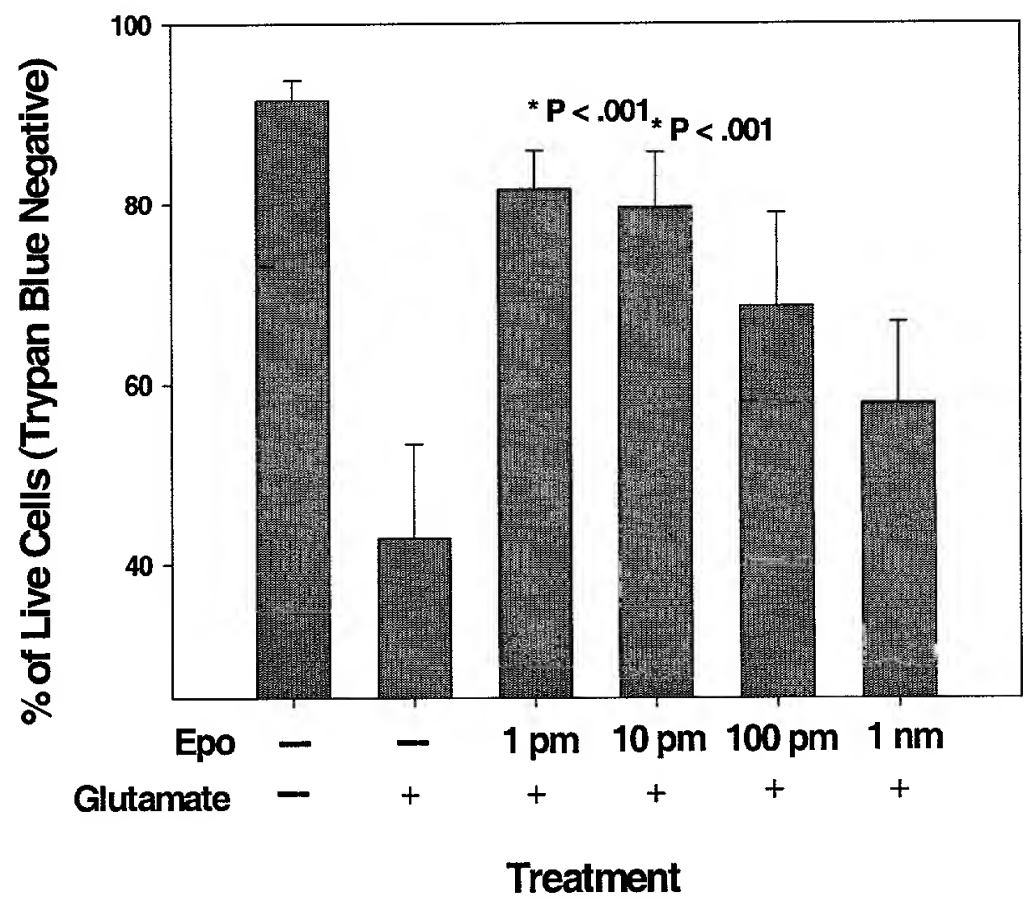
EPO PROTECTS RAT CEREBRAL CORTICAL CELLS FROM
GLUTAMATE TOXICITY



t-test (one-tailed) comparison between treatments * p<0.01; ** p<0.001

FIGURE 5

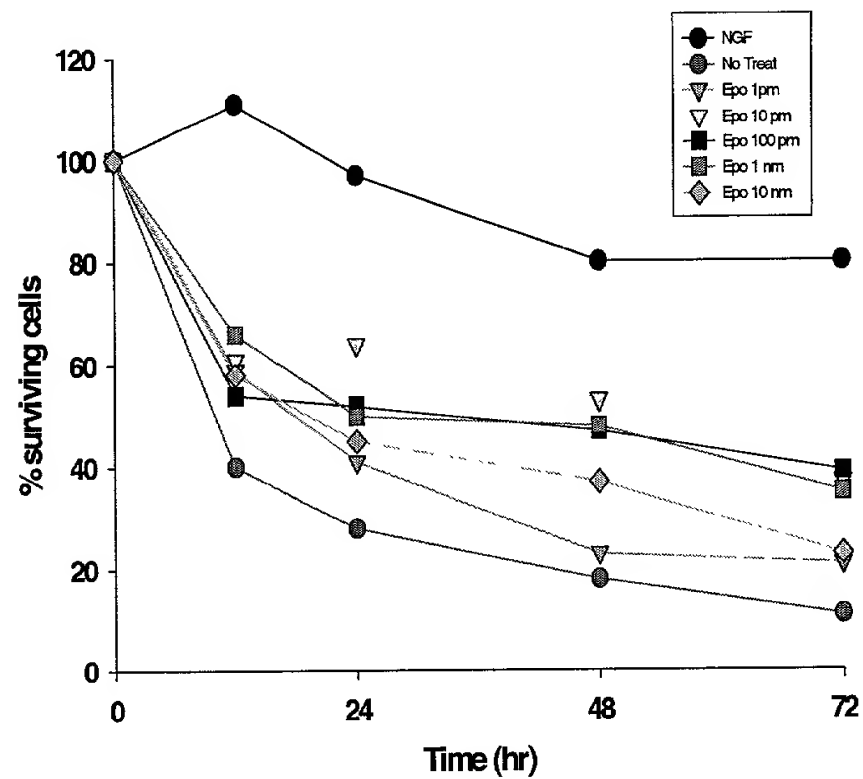
EPO PROTECTS PC12 CELLS FROM GLUTAMATE-INDUCED CELL DEATH



Erythropoietin protects PC-12 cells from glutamate mediated cytotoxicity.

FIGURE 6

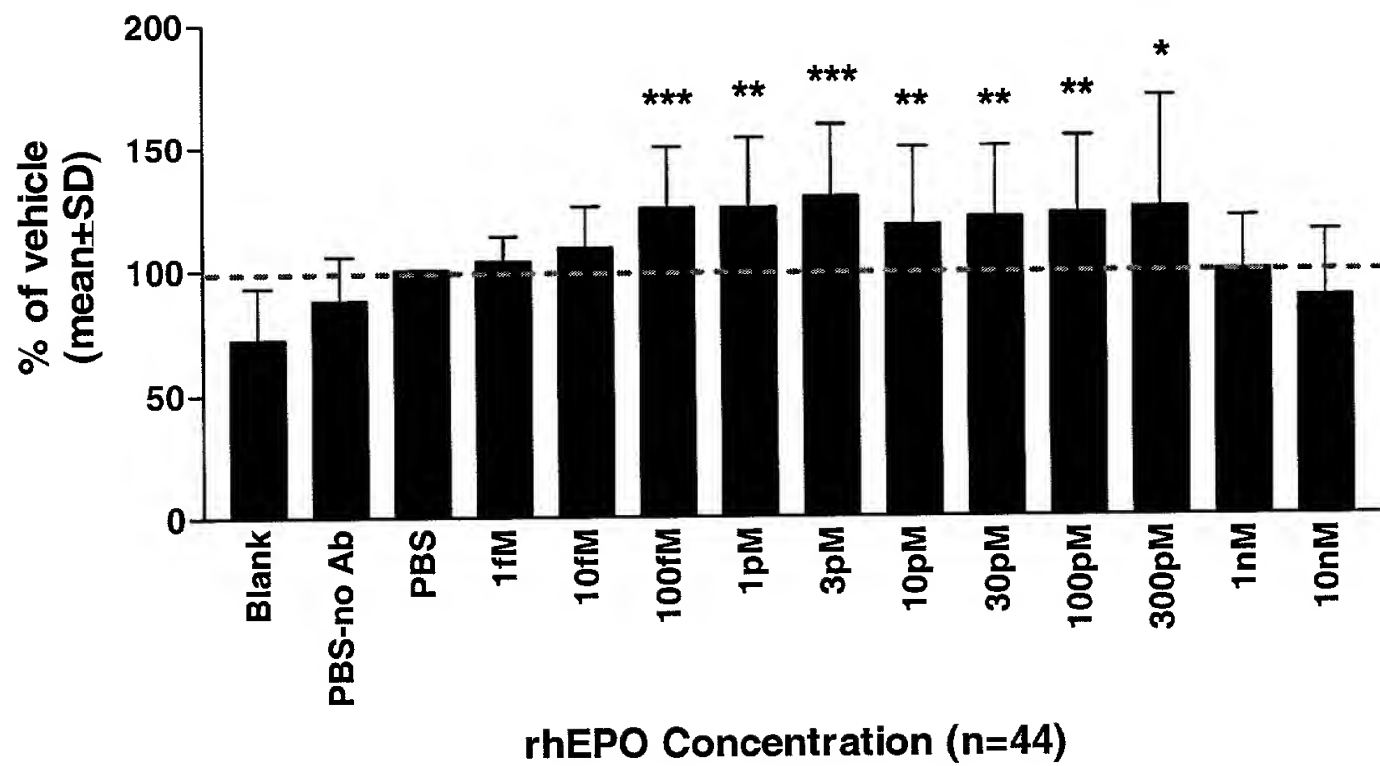
EPO PROTECTS PC12 CELLS FROM NGF WITHDRAWAL-INDUCED
CELL DEATH



Erythropoietin protects PC-12 cells against death induced
bv NGF withdrawal.

FIGURE 7

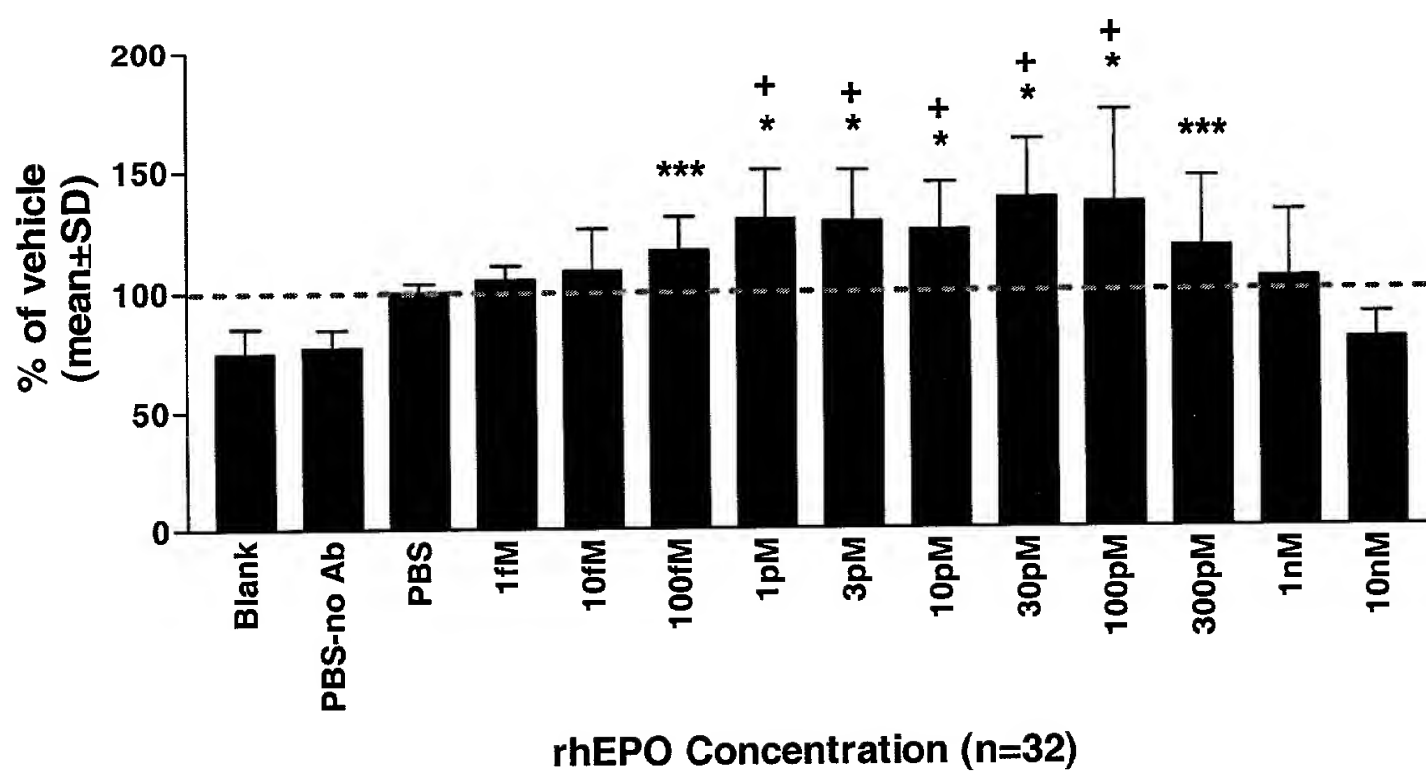
**EPO PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL
CORTICAL CULTURES**



One-way ANOVA comparison between groups $p < 0.0001$;
Dunnett's multiple comparison test $p > 0.05$, ns
unpaired t-test (one-way) * $p < 0.05$; ** $p < 0.01$, *** $p < 0.001$

FIGURE 8

EPO PROMOTES NEURITE OUTGROWTH IN RAT HIPPOCAMPAL CULTURES



One-way ANOVA comparison between treatment groups $p < 0.0001$;
Dunnett's multiple comparison test $*p < 0.01$;
unpaired t-test (one-tailed) $***p < 0.001$; $+ p < 0.0001$

FIGURE 9

EMP-1 PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL
CORTICAL CULTURES

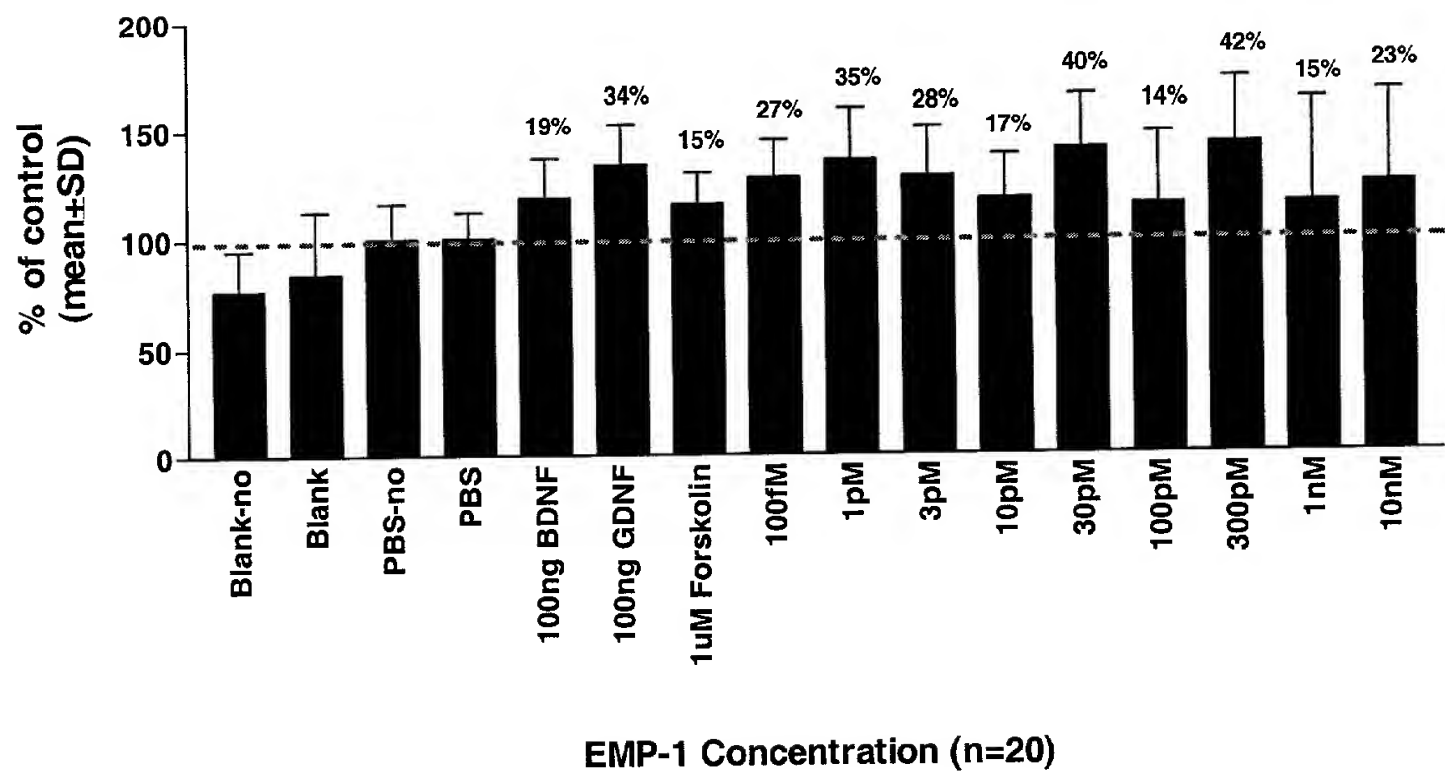


FIGURE 10

EMP-1 PROMOTES NEURITE OUTGROWTH IN RAT HIPPOCAMPAL CULTURES

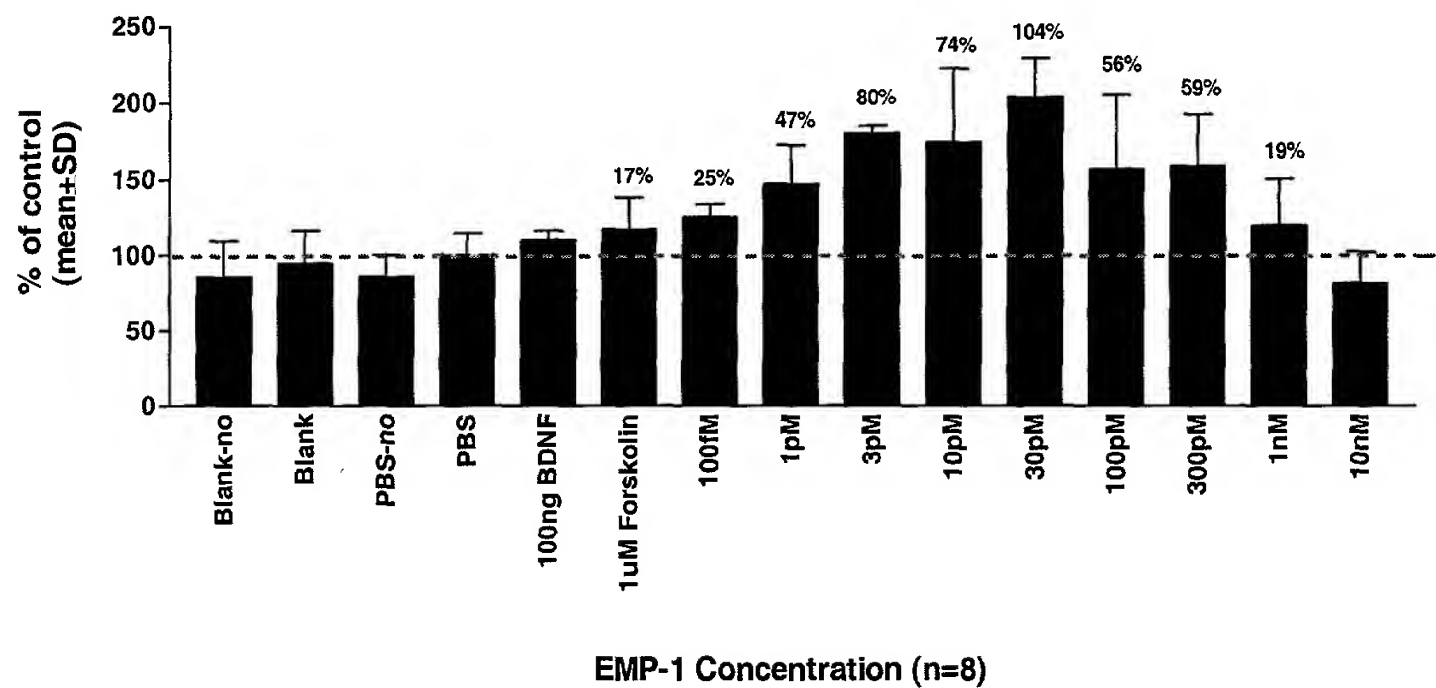


FIGURE 11

EMP-6 PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL CORTICAL CULTURES

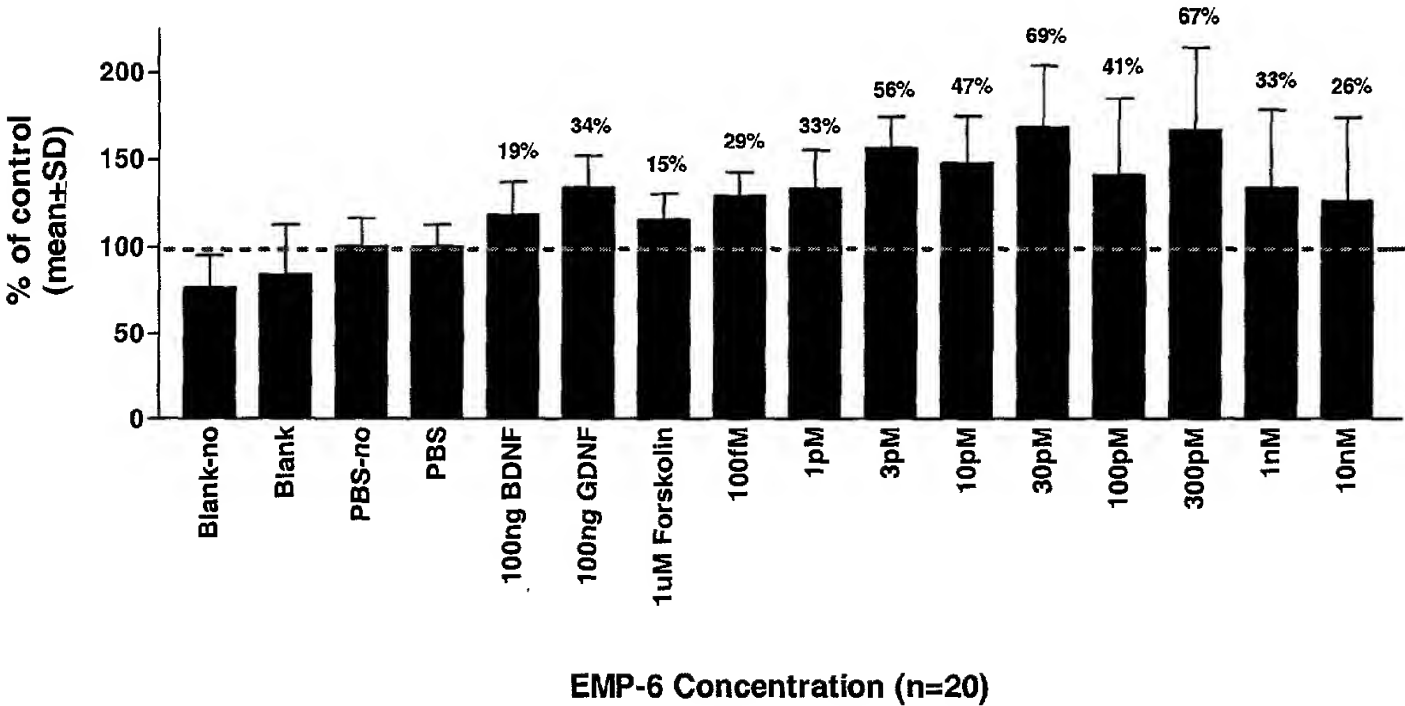


FIGURE 12

EMP-6 PROMOTES NEURITE OUTGROWTH IN RAT HIPPOCAMPAL CULTURES

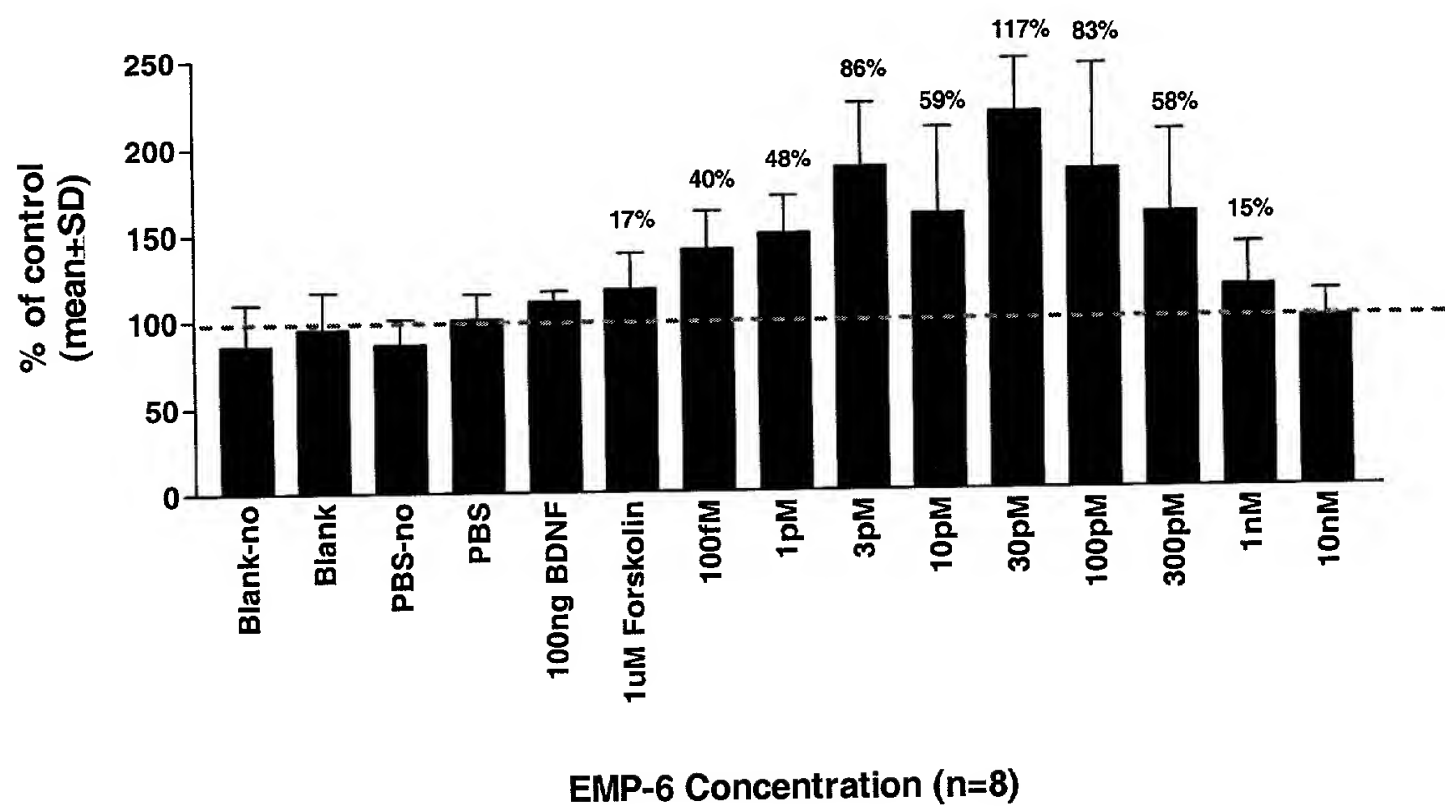


FIGURE 13

**EMP-9 PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL
CORTICAL CULTURES**

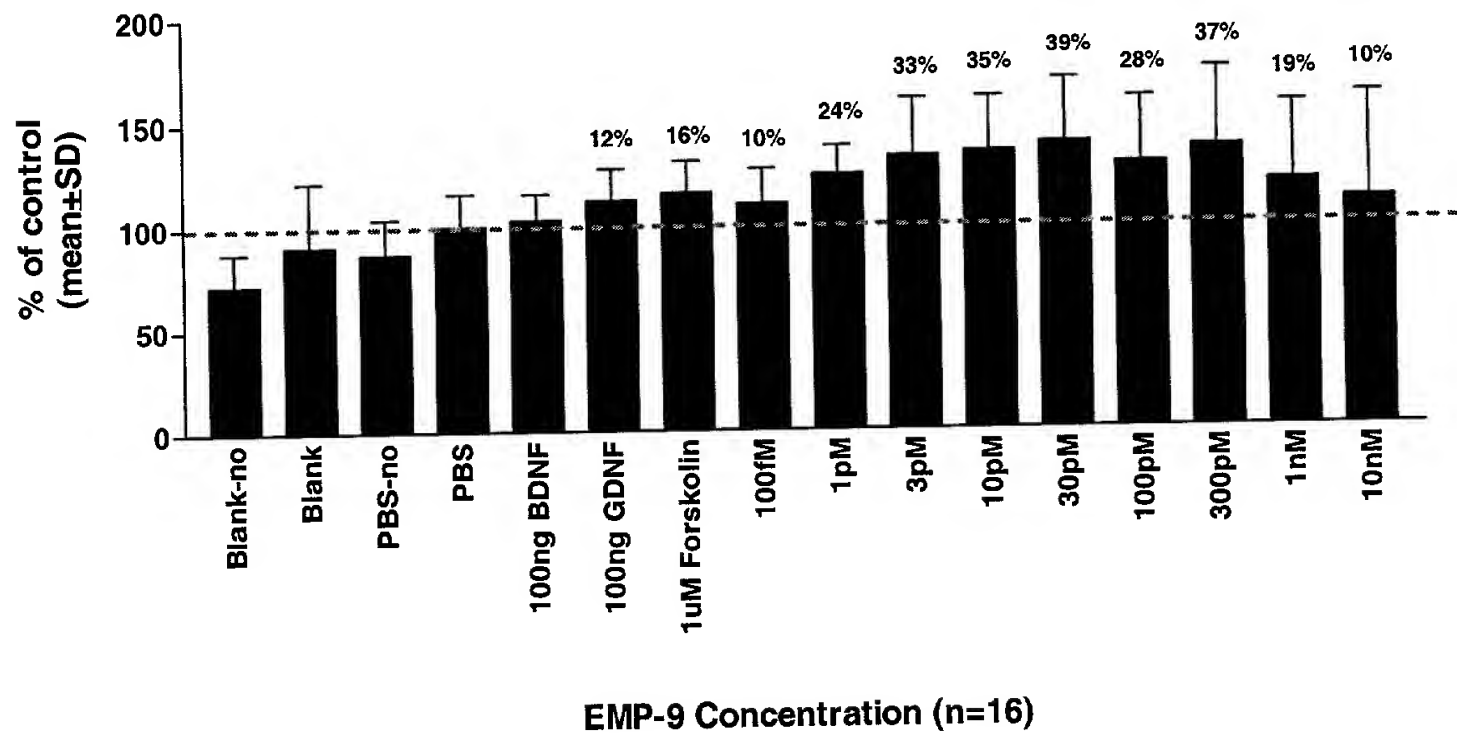


FIGURE 14

EMP-9 PROMOTES NEURITE OUTGROWTH IN RAT HIPPOCAMPAL CULTURES

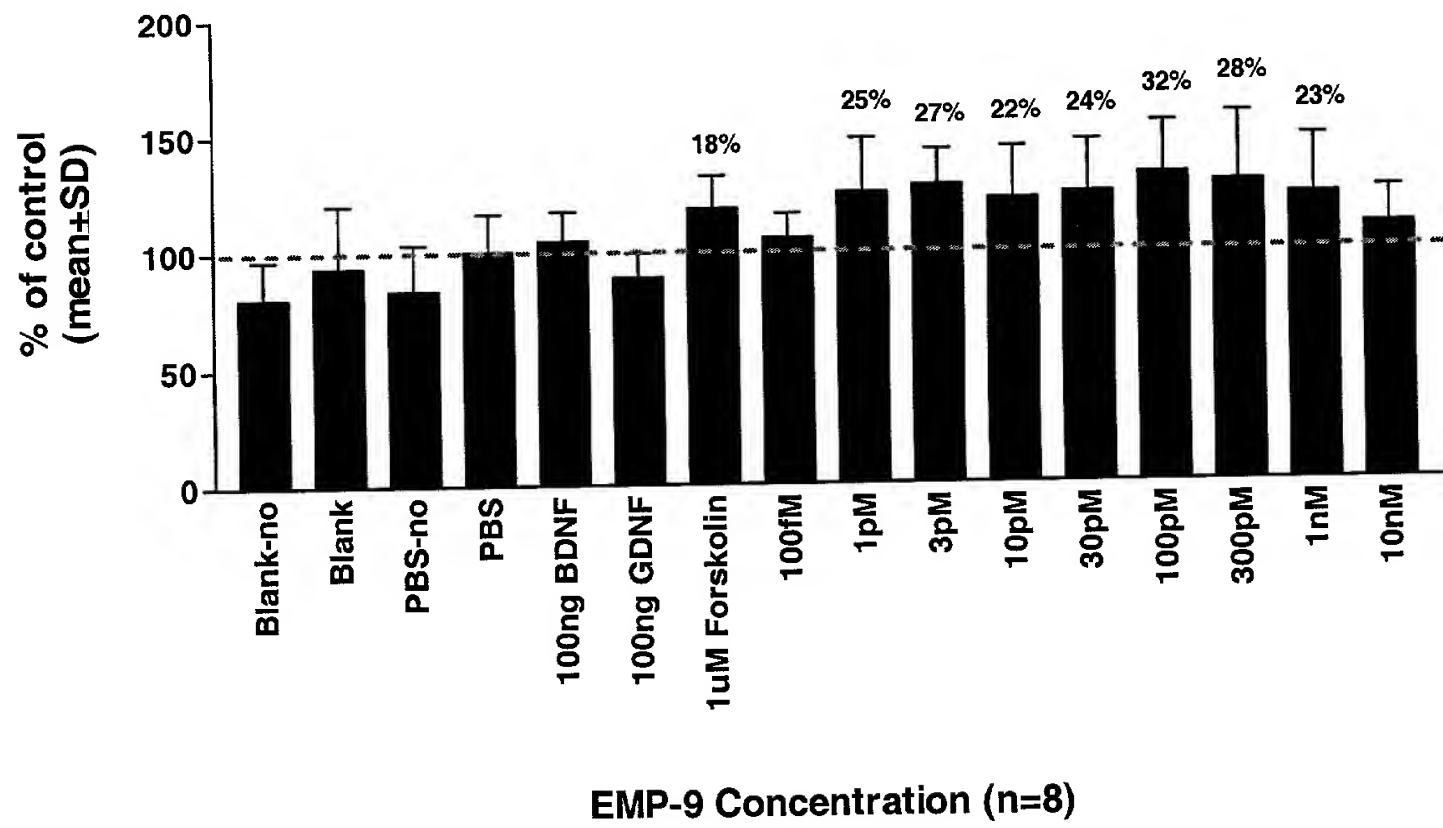


FIGURE 15

EMP-23 PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL
CORTICAL CULTURES

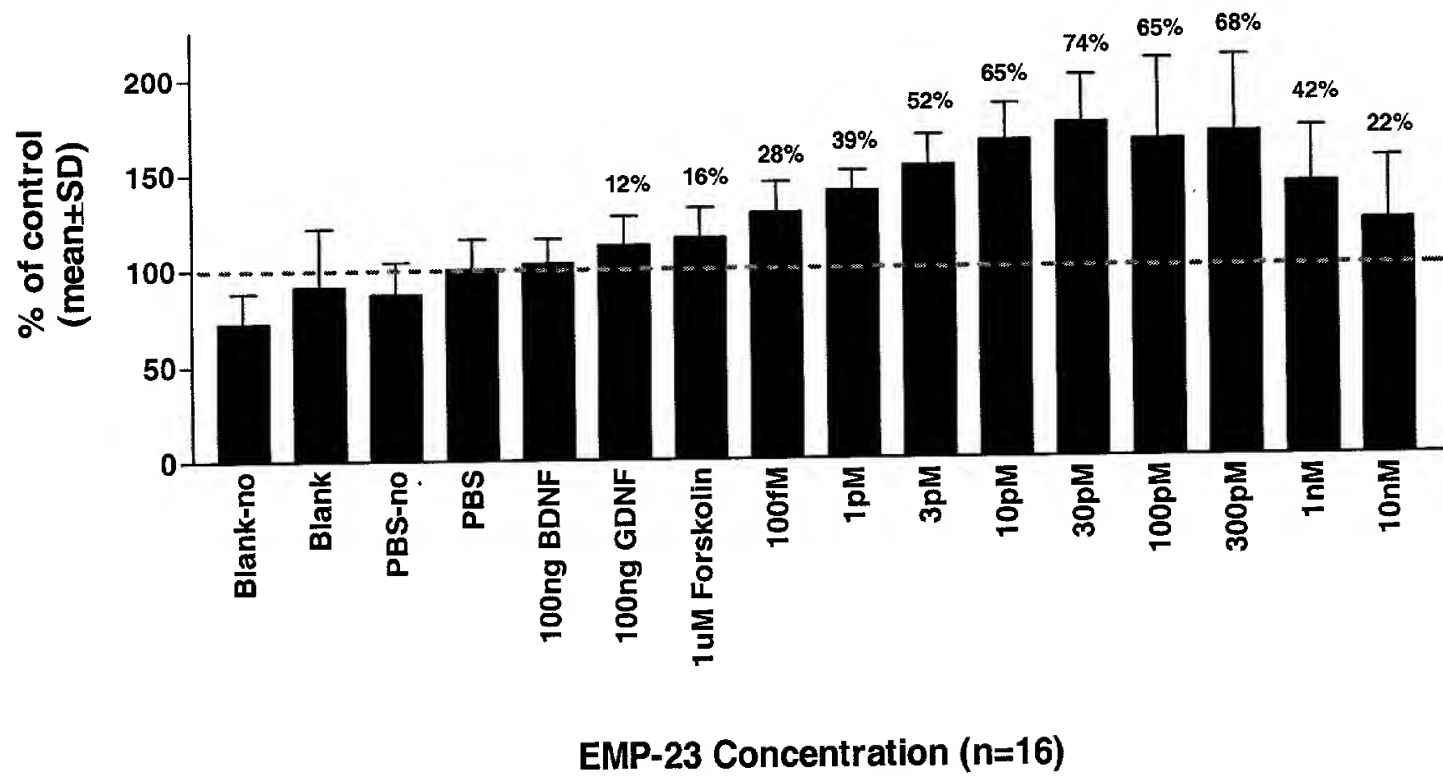


FIGURE 16

EMP-23 PROMOTES NEURITE OUTGROWTH IN RAT
HIPPOCAMPAL CULTURES

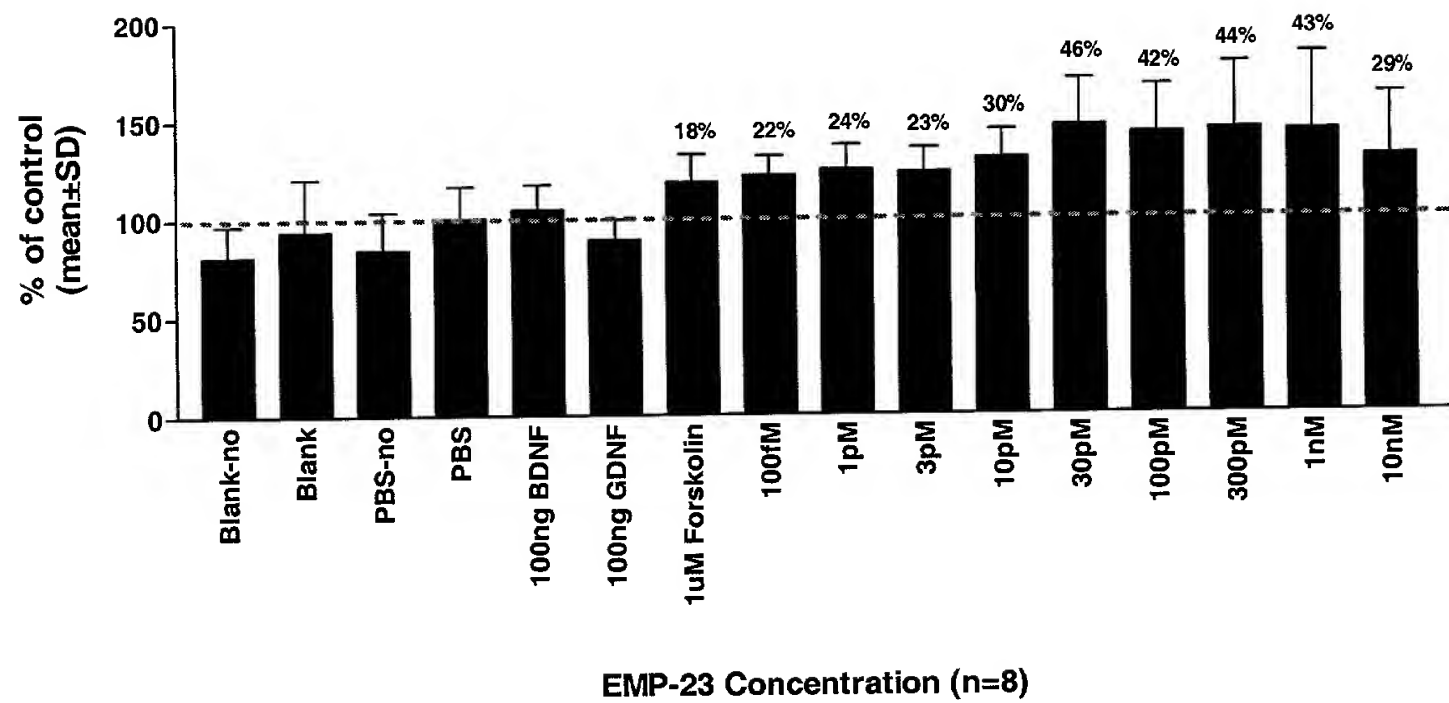


FIGURE 17

EMP-27 PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL
CORTICAL CULTURES

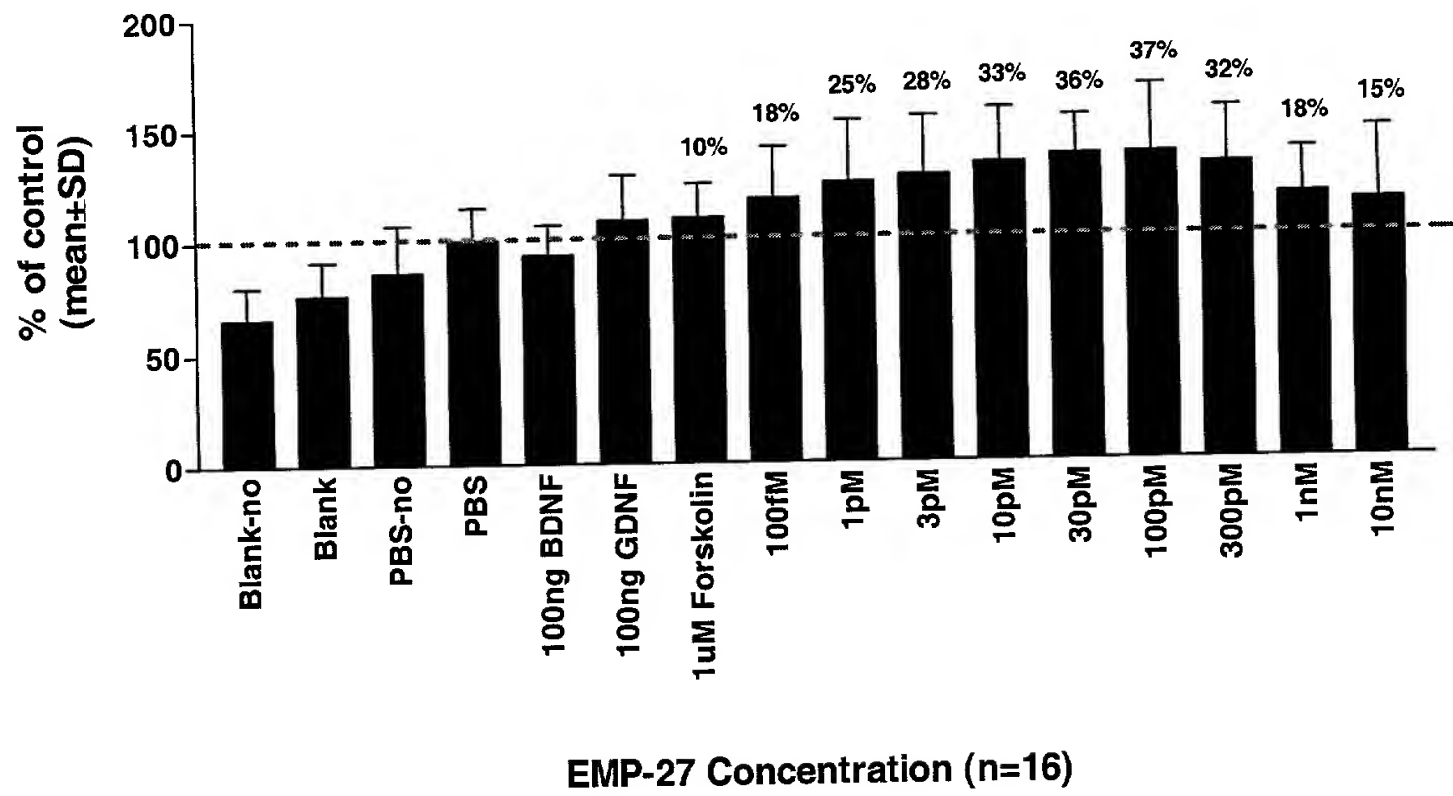


FIGURE 18

EMP-27 PROMOTES NEURITE OUTGROWTH IN RAT
HIPPOCAMPAL CULTURES

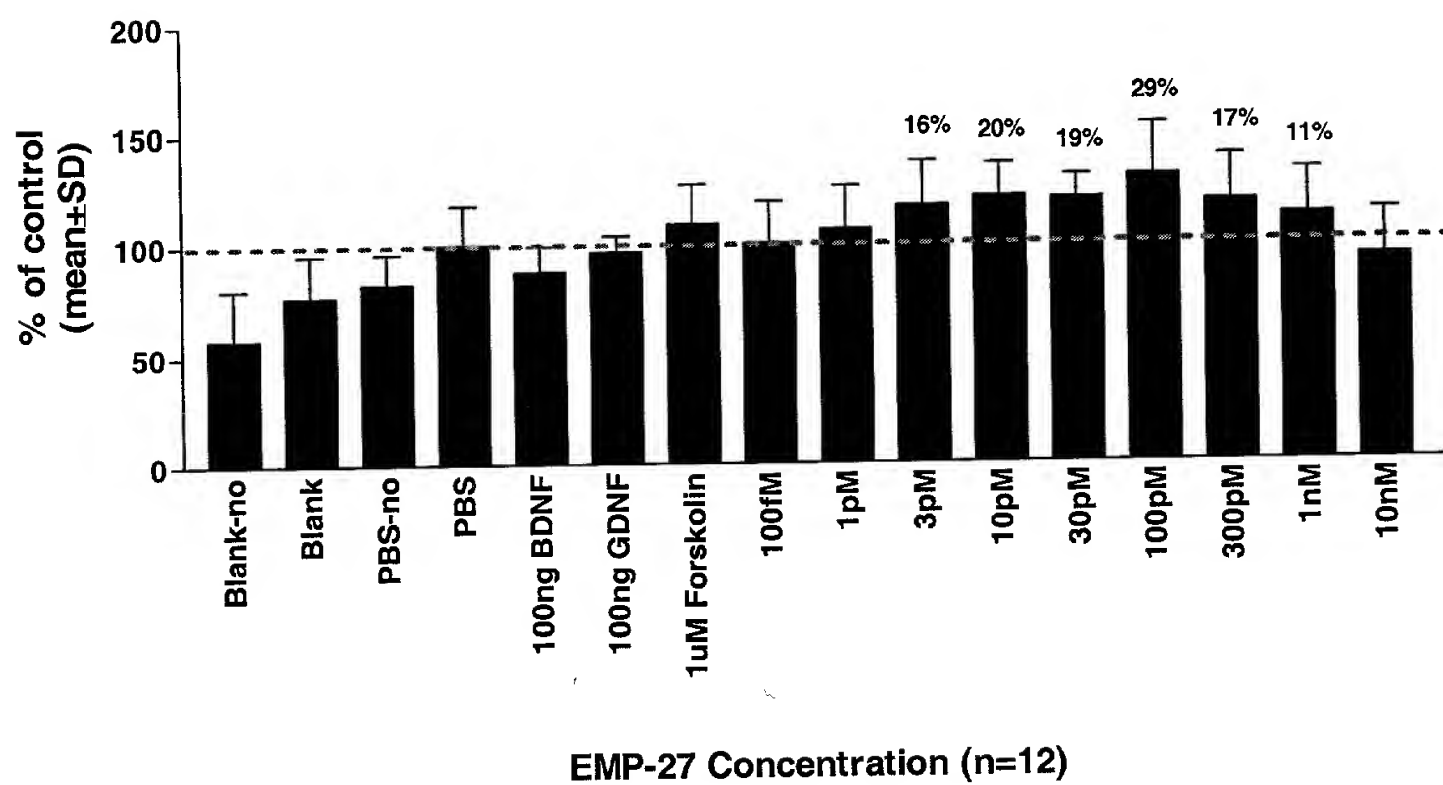
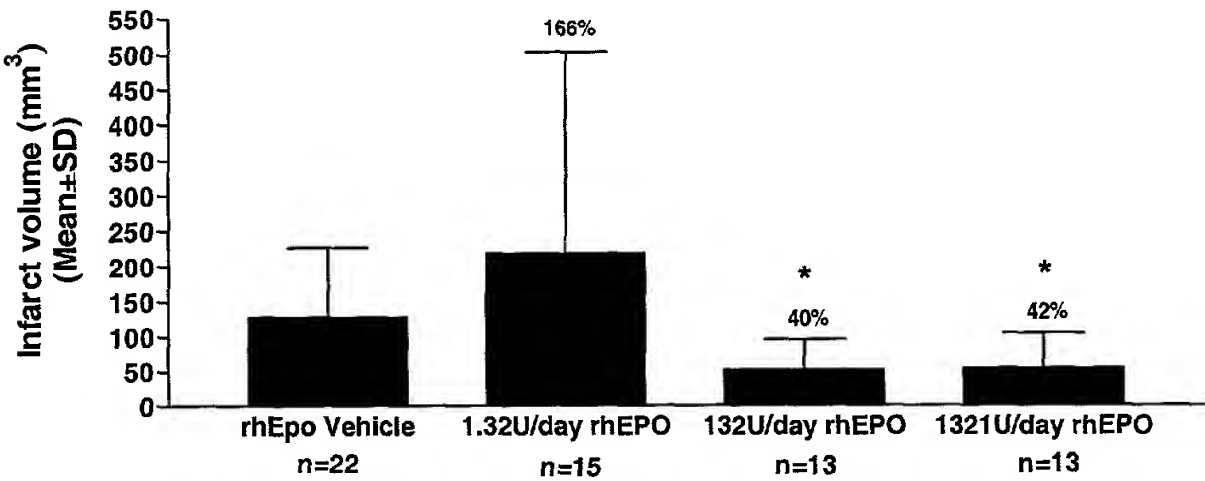


FIGURE 19

STUDY I: EPO PROTECTS AGAINST ISCHEMIC INJURY BY CONTINUOUS
INTRAVENOUS INFUSION VIA OSMOTIC MINI-PUMP



One-way ANOVA comparison between treatments $p=0.01$
t-test (one-tailed) comparison between treatments * $p\leq 0.01$

Sample	Time (h)	Temperature (°C)	Pressure (atm)	Flow rate (L/min)	Concentration (g/L)	Yield (%)	Conversion (%)	Reaction time (h)	Temperature (°C)	Pressure (atm)	Flow rate (L/min)	Concentration (g/L)	Yield (%)	Conversion (%)
1	1	100	1	1	1	10	10	1	100	1	1	1	10	10
2	2	100	1	1	1	20	20	2	100	1	1	1	20	20
3	3	100	1	1	1	30	30	3	100	1	1	1	30	30
4	4	100	1	1	1	40	40	4	100	1	1	1	40	40
5	5	100	1	1	1	50	50	5	100	1	1	1	50	50
6	6	100	1	1	1	60	60	6	100	1	1	1	60	60
7	7	100	1	1	1	70	70	7	100	1	1	1	70	70
8	8	100	1	1	1	80	80	8	100	1	1	1	80	80
9	9	100	1	1	1	90	90	9	100	1	1	1	90	90
10	10	100	1	1	1	100	100	10	100	1	1	1	100	100

Sample	Time (h)	Temperature (°C)	Pressure (atm)	Flow rate (L/min)	Concentration (g/L)	Yield (%)	Conversion (%)	Reaction time (h)	Temperature (°C)	Pressure (atm)	Flow rate (L/min)	Concentration (g/L)	Yield (%)	Conversion (%)
1	1	100	1	1	1	10	10	1	100	1	1	1	10	10
2	2	100	1	1	1	20	20	2	100	1	1	1	20	20
3	3	100	1	1	1	30	30	3	100	1	1	1	30	30
4	4	100	1	1	1	40	40	4	100	1	1	1	40	40
5	5	100	1	1	1	50	50	5	100	1	1	1	50	50
6	6	100	1	1	1	60	60	6	100	1	1	1	60	60
7	7	100	1	1	1	70	70	7	100	1	1	1	70	70
8	8	100	1	1	1	80	80	8	100	1	1	1	80	80
9	9	100	1	1	1	90	90	9	100	1	1	1	90	90
10	10	100	1	1	1	100	100	10	100	1	1	1	100	100

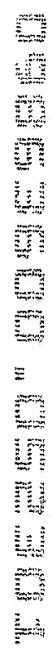
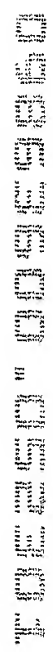
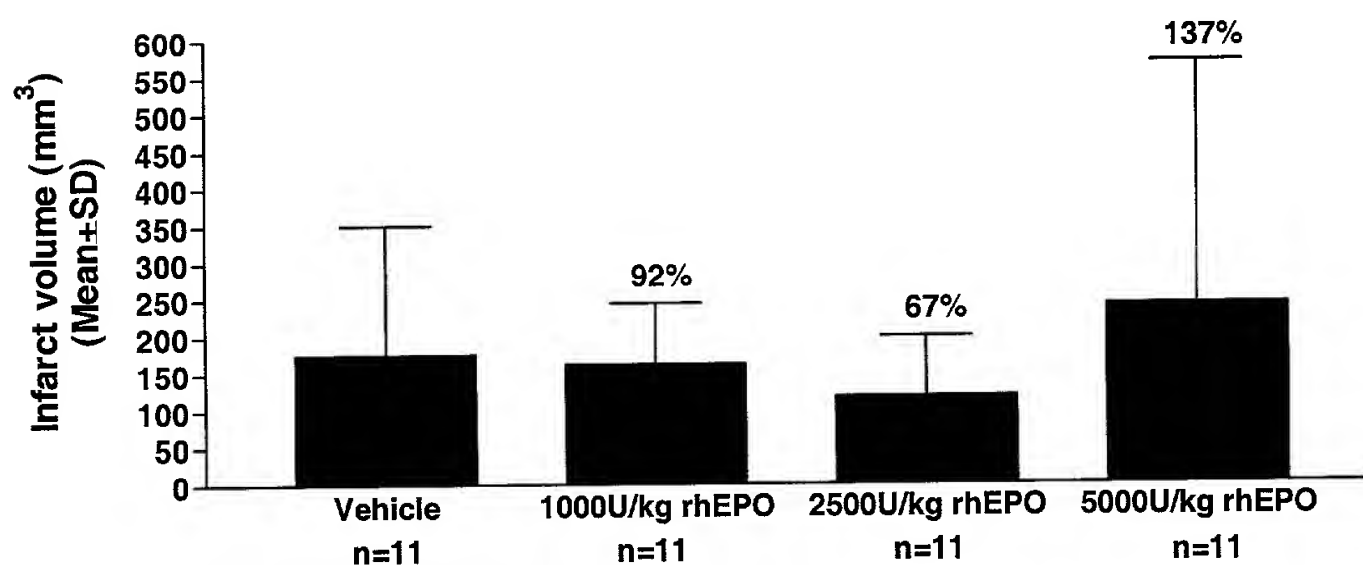


FIGURE 21

**STUDY II: EPO DOES NOT PROTECT AGAINST ISCHEMIC INJURY WHEN
ADMINISTERED AS A SINGLE INTRAVENOUS BOLUS**



One-way ANOVA comparison between treatment groups; $p > 0.05$, n.s.

FIGURE 22

STUDY II: PLASMA DETERMINATIONS

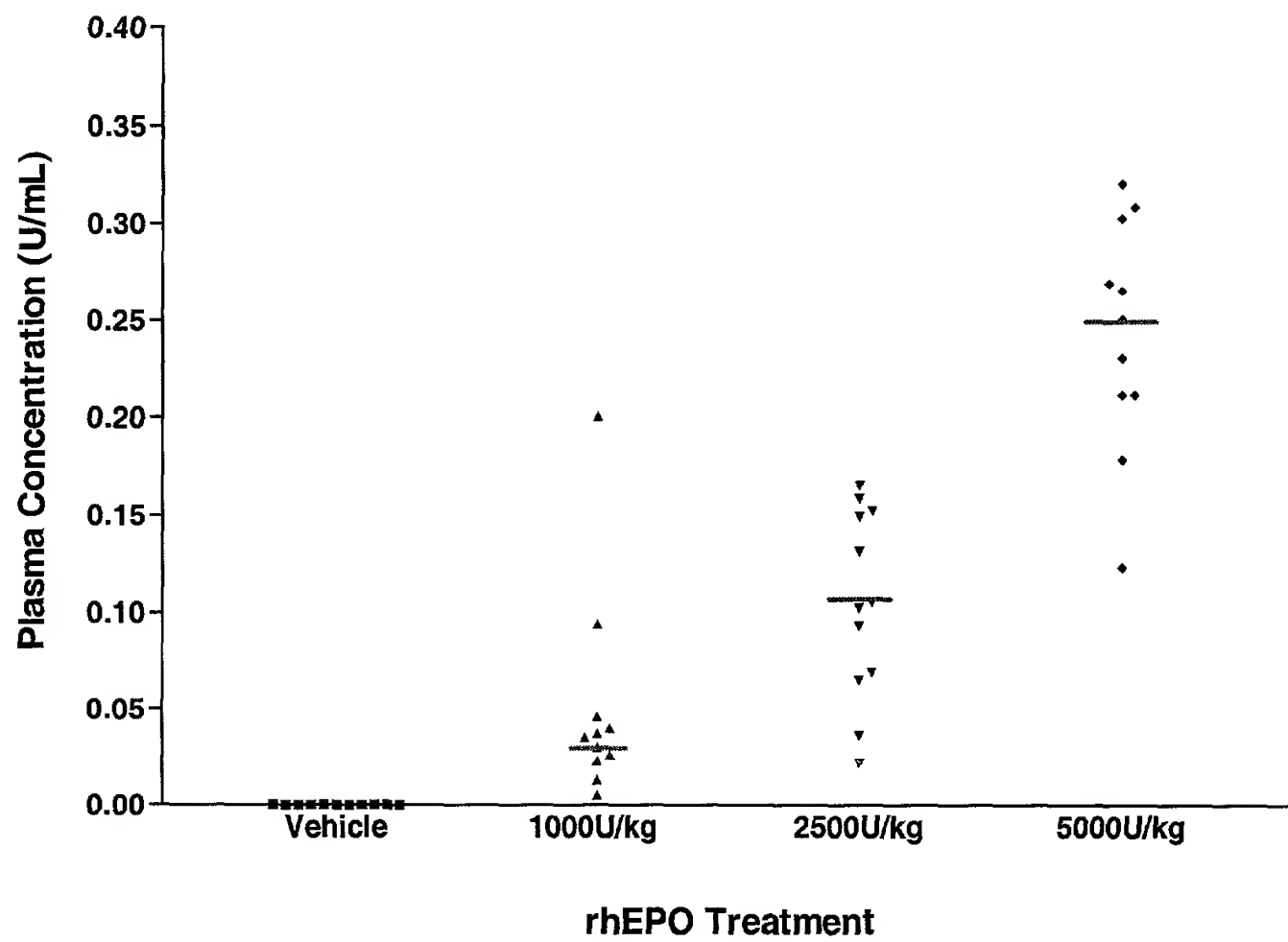
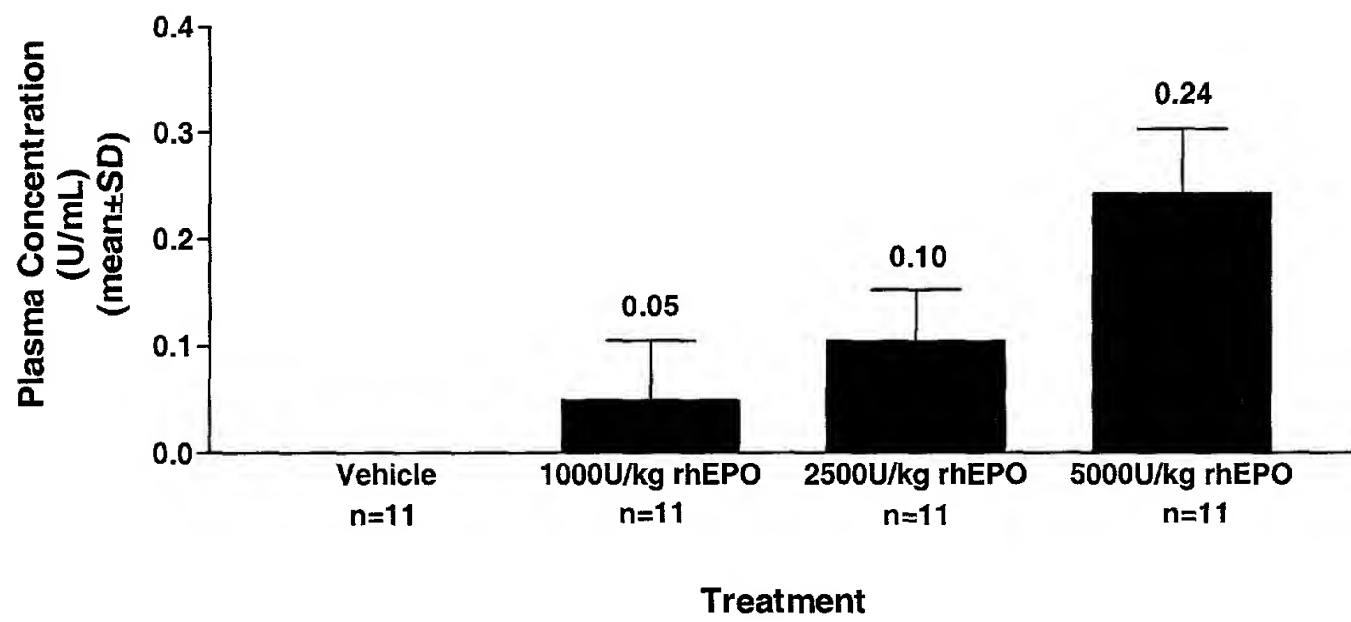
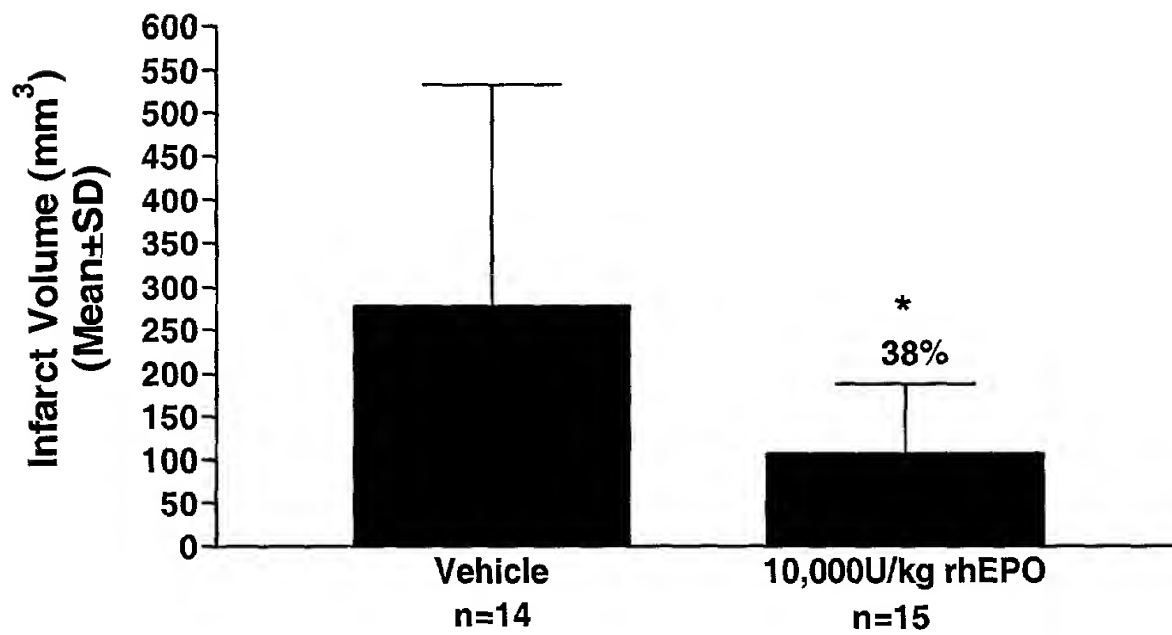


FIGURE 23

**STUDY III: EPO PROTECTS AGAINST ISCHEMIC INJURY VIA REPEAT
INTRAVENOUS BOLUS DOSING**



One-way ANOVA comparison between treatment groups $p=0.02$
Dunnett's multiple comparison t-test * $p<0.05$

FIGURE 24

STUDY III: PLASMA DETERMINATIONS

Study III: Plasma Concentration

